

PATENT SPECIFICATION

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DRAWINGS ATTACHED.

1,074,446



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COMPLETE SPECIFICATION.

Ball for Playing Games.

I, JOHANN SCHMOLL, of 87 Dachsteinstrasse, Wiesbaden-Dotzheim, Germany, a German Citizen, do hereby declare the invention, for which I pray that a patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:—

The invention relates to a ball which is adapted for manipulation by means of a stick or racket and which is suitable for many forms of sport and offers both single players as well as groups and teams of players the possibility of sporting or games activity.

The peculiarity of the ball according to the invention lies in that it consists of a single-layer, hollow body of elastic material which requires no inflation and which has a body portion and at least one projecting, tapered extension, which is circular in cross-section and which is so formed that when in an equilibrium position on a horizontal surface the extension is directed horizontally.

The manipulation of the ball by means of a stick or racket can be effected, on the one hand by exerting a direct blow on the stationary or flying ball, and on the other hand by striking a blow with the stick or racket in the vertical direction on the laterally projecting tapered extension of the stationary ball, with the result that the ball is thrown up from the ground and can now be driven by striking a blow in the sideways direction.

The last-mentioned possibility of throwing the ball up in the air, presupposes that the laterally projecting extension is not lying on the ground but is pointing freely in a horizontal direction.

The invention can be realized in many [Price 4s. 6d.]

ways. An embodiment of the ball wherein the body portion of the ball is hemispherical and the extension of a conical or cone-like shape with an internal wall reinforcement which assists the correct equilibrium position has proved appropriate. The ball may also be composed of two conical or cone-like portions between which the body of the ball has a rounded transition portion; in this case, too, the ball is constructed with an internal wall reinforcement. A form of construction wherein the ball is composed of a central cylinder and two conical or cone-like extensions has proved particularly appropriate. The ball may be formed of a plurality of parts, or it may be made in one piece.

Further features of the invention will be clear from the following description of the embodiments illustrated in the accompanying drawings, in which:

Figure 1 shows a longitudinal section through an egg-shaped ball with a pronounced point facing sideways;

Figure 2 is a longitudinal section through a ball which is substantially in the shape of an ellipsoid;

Figure 3 is a longitudinal section through a ball which is similar in shape to a shuttle;

Figure 4 shows a ball similar to that in Figure 1, illustrated partially in section, with provision for the connection of an extension member;

Figure 5 shows a ball corresponding to that in Figure 4 with a diamond pattern ribbing;

Figure 6 shows a ball corresponding to that in Figure 4, and the surface of which is covered with bristles;

Figure 7 shows a ball similar to that in Figure 2, partially illustrated in section, with

provision for the connection of an extension member;

Figure 8 shows a ball corresponding to that in Figure 7, with a diamond pattern ribbing.

Figure 9 shows a ball corresponding to that in Figure 7, the surface of which is covered with bristles;

Figure 10 shows a ball corresponding to that in Figure 8 the wall of which is perforated.

According to Figure 1, the ball consists of a hemispherical body portion 1 and a conical or cone-like extension 2. Internally, the ball body is provided with a wall reinforcement 3 consisting of a concentration of material.

According to Figure 2, the ball body comprises two conical or cone-like portions 4 and 5 which are bridged by a rounded transition portion 6. In this case, too, an internal wall reinforcement 3 is provided.

According to Figure 3, the ball is composed of a central cylinder 7 and of two conical or cone-like lateral extensions 8 and 9. The central cylindrical part 7 has the effect that the ball body is always aligned horizontally in the equilibrium position so that the two conical lateral extensions 8 and 9 lie above the ground and face sideways. It is therefore unnecessary to provide a concentration of material or a wall reinforcement in the interior of the ball.

Figure 4 illustrates a ball which is similar to the ball shown in Figure 1 and which is equipped, at the tapered end 2a with a recess 10 which is widened out inside and which permits the connection of an extension member, for example a fin.

The ball shown in Figure 5 differs from the ball shown in Figure 4 in that its surface has diamond pattern ribbing, while the modification as shown in Figure 6 consists in that the surface is covered with bristles

Figures 7, 8 and 9 illustrate the same modifications, with respect to Figure 2 as are shown in Figures 4, 5 and 6 with respect to the ball shown in Figure 1.

In the ball shown in Figure 10, the wall of the ball is perforated with holes 12.

As seen in all the Figures, the balls are all formed of a single layer of material. In addition, the balls have no valve or air filling opening and do not require to be inflated.

WHAT I CLAIM IS:—

1. A ball for playing games adapted for manipulation by means of a stick or racket, consisting of a single-layer, hollow body of elastic material which requires no inflation and which has a body portion and at least one projecting, tapered extension which is circular in cross-section and which is so formed that when in an equilibrium position on a horizontal surface the extension is directly horizontally.

2. A ball as claimed in Claim 1 formed from a plurality of joined parts.

3. A ball as claimed in Claim 1, formed in a single piece.

4. A ball as claimed in Claim 1, 2 or 3, characterised by a hemispherical body portion and a conical or cone-like extension portion and by an internal wall reinforcement which assists the equilibrium position.

5. A ball as claimed in Claim 1, 2 or 3, characterised by two conical or cone-like extensions with a rounded transition body portion between, and by an internal wall reinforcement which assists the equilibrium position.

6. A ball as claimed in Claim 1, 2 or 3, characterised by a central cylindrical body portion and two conical or cone-like lateral extensions.

7. A ball as claimed in any one of Claims 1 to 6, characterised in that the or at least one tapered extension is equipped with a recess which widens internally.

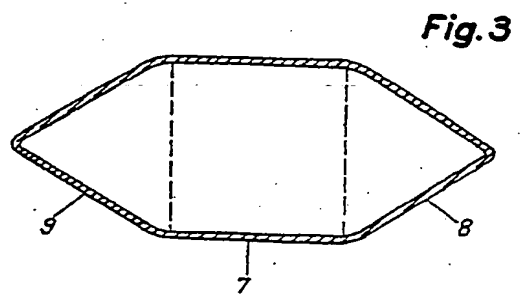
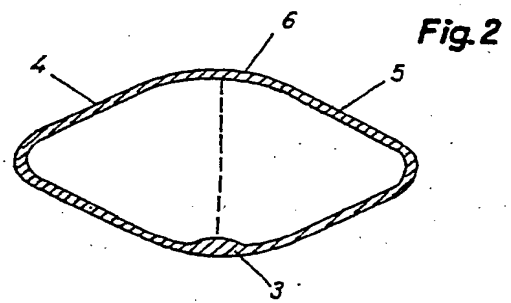
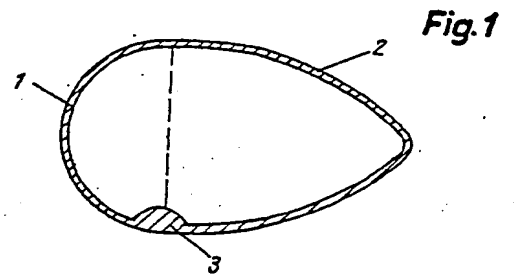
8. A ball as claimed in any one of the Claims 1 to 7 characterised in that the surface of the ball has a diamond pattern ribbing.

9. A ball as claimed in any one of Claims 1 to 7, characterised in that the surface of the ball is covered with bristles.

10. A ball as claimed in any one of Claims 1 to 9, characterised in that the wall of the ball is perforated.

11. A ball substantially as described with reference to and as illustrated in any one of the Figures shown in the accompanying drawings.

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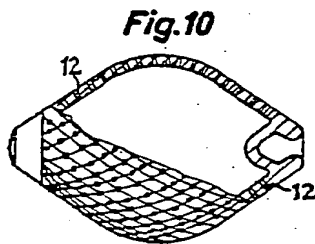
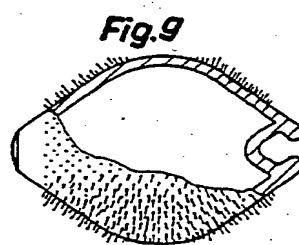
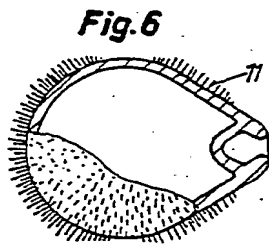
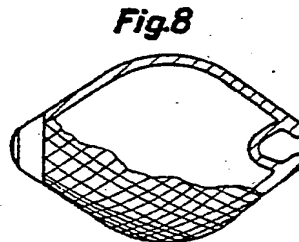
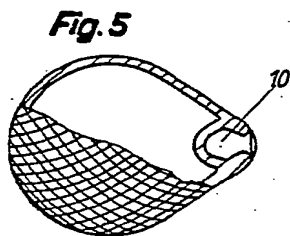
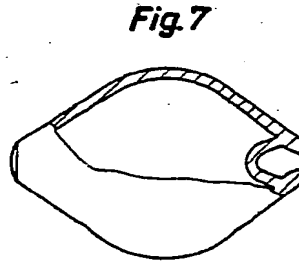
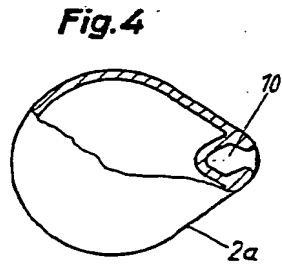
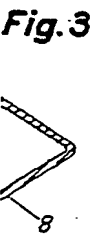
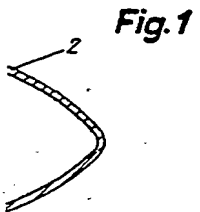


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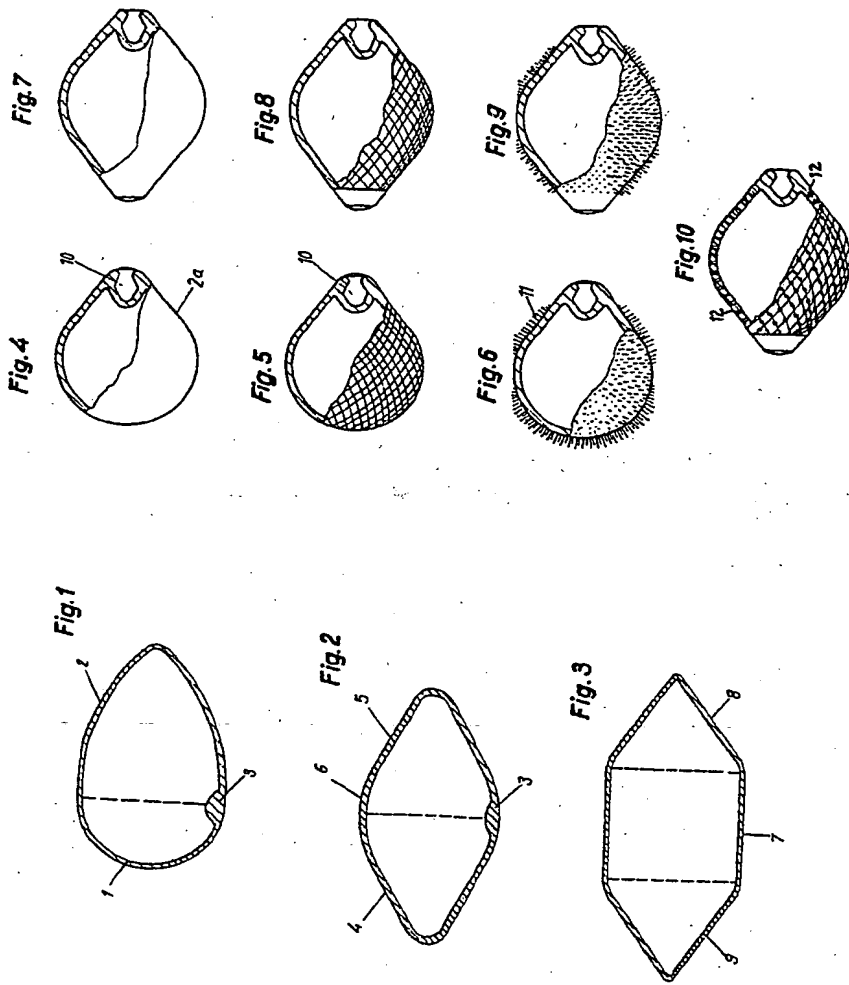
COMPLETE SPECIFICATION

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